MA vs. FFS Comparisons Based on MA Plan Data and FFS 5% File

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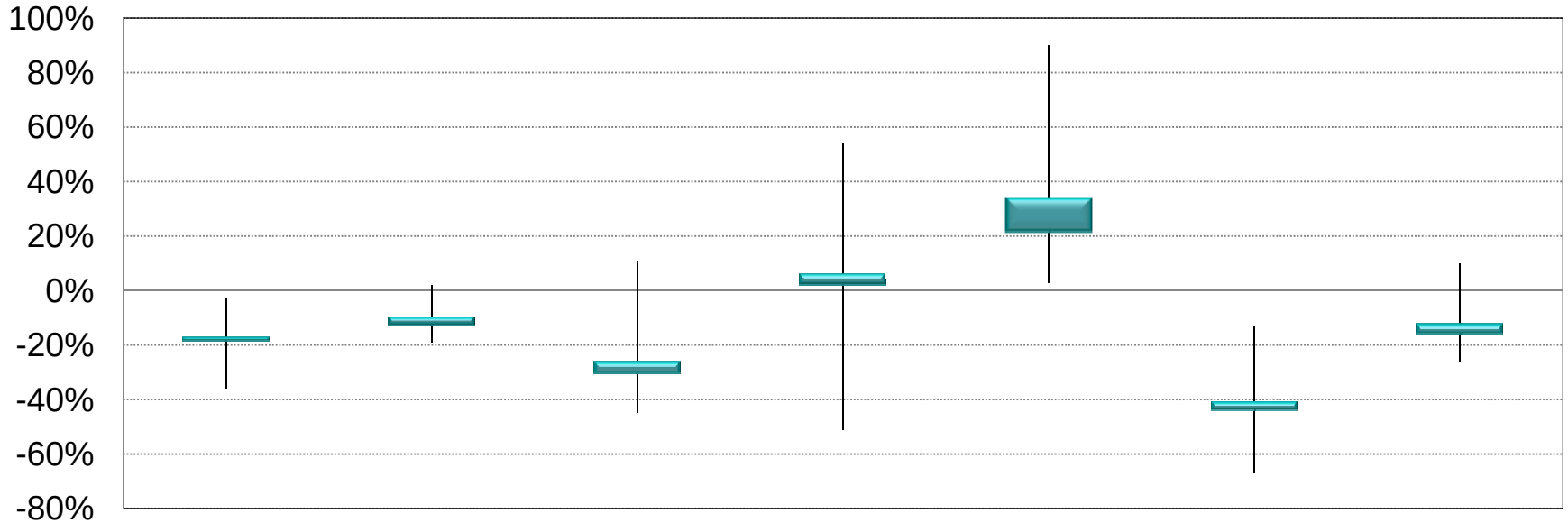
Eight-Company Results: Percentage Difference in Utilization Rates, MA Rate vs. FFS Rate (per risk score value)



	Inpatient Days	Inpatient Admissions	E.R. Visits	Outpatient Visits	Office Visits	Re-Admissions	Avoidable Admissions
Mean	-18%	-10%	-27%	3%	33%	-42%	-13%
High	-3%	2%	11%	54%	90%	-13%	10%
Low	-36%	-19%	-45%	-51%	3%	-67%	-26%
Median	-18%	-12%	-30%	6%	22%	-44%	-16%

Source: Authors' calculations, based on the Medicare 5 percent sample files for hospital and physician claims and data from eight regional Medicare Advantage HMO plans in 2005-2006.

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Eight MA HMOs vs. FFS in Same Counties Adjusted for Risk Scores, Simple Averages

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Data from 2005 and 2006 (pooled)	All Enrollees	Diabetes Patients	Heart Disease Patients
MA Rate vs. FFS Rate (Per Risk Score Value)			
Inpatient			
Hospital Days	-18%	-21%	-14%
Hospital Admissions	-10%	-13%	-7%
Outpatient			
ER Visits	-27%	-35%	-31%
Outpatient Visits	3%	2%	4%
Office Visits	33%	27%	25%
Re-Admissions, Same Quarter, Same DRG	-42%	-45%	-37%
13 "Potentially Avoidable" Admissions (AHRQ definitions)	-13%	-15%	-8%

Source: AHIP analysis of FFS 5% sample claims files and data from 8 regional MA plans. Revised September 2009.

Percentage Difference in Utilization Rates, (Per Risk Score Value) – All Enrollees

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Data from 2005 and 2006 (pooled)	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
MA Rate vs. FFS Rate (Per Risk Score Value)								
Inpatient								
Hospital Days	-3%	-20%	-28%	-17%	-4%	-36%	-17%	-19%
Hospital Admissions	2%	-9%	-19%	-11%	-1%	-16%	-15%	-13%
Outpatient								
ER Visits	-29%	-39%	-10%	-27%	-45%	-30%	-44%	11%
Outpatient Visits	54%	-51%	-51%	17%	-27%	-6%	43%	42%
Office Visits	34%	3%	8%	77%	7%	11%	90%	33%
Same-Quarter Readmissions for same DRG	-67%	-13%	-47%	-63%	-19%	-43%	-36%	-44%
13 "Potentially Avoidable" Admissions (AHRQ definitions)	-23%	-4%	-21%	-8%	10%	-10%	-26%	-22%

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Percentage Difference in Utilization Rates, (Per Risk Score Value) – Diabetes Patients

AHIP Center for Policy and Research

Data from 2005 and 2006 (pooled)	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
MA Rate vs. FFS Rate (Per Risk Score Value)								
Inpatient								
Hospital Days	-7%	-21%	-34%	-21%	-3%	-39%	-24%	-14%
Hospital Admissions	-1%	-14%	-25%	-15%	2%	-19%	-22%	-12%
Outpatient								
ER Visits	-32%	-47%	-10%	-27%	-45%	-31%	-50%	5%
Outpatient Visits	83%	-63%	-55%	12%	-16%	-8%	26%	35%
Office Visits	38%	-12%	5%	74%	7%	4%	75%	30%
Same-Quarter Readmissions for same DRG	-63%	-21%	-52%	-68%	-17%	-41%	-48%	-35%
13 "Potentially Avoidable" Admissions (AHRQ definitions)	-25%	-9%	-25%	-12%	6%	-6%	-31%	-17%

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Percentage Difference in Utilization Rates (Per Risk Score Value) – Heart Disease Pts

AHIP Center for Policy and Research

Data from 2005 and 2006 (pooled)	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
MA Rate vs. FFS Rate (Per Risk Score Value)								
Inpatient								
Hospital Days	4%	-15%	-26%	-19%	-3%	-31%	-11%	-10%
Hospital Admissions	8%	-6%	-17%	-13%	-1%	-11%	-8%	-8%
Outpatient								
ER Visits	-29%	-36%	-6%	-28%	-47%	-29%	-43%	-5%
Outpatient Visits	90%	-55%	-55%	13%	-24%	-5%	28%	40%
Office Visits	38%	-10%	-1%	67%	1%	0%	78%	22%
Same-Quarter Readmissions for same DRG	-65%	-14%	-46%	-64%	-15%	-36%	-22%	-27%
13 "Potentially Avoidable" Admissions (AHRQ definitions)	-15%	2%	-17%	-9%	4%	-2%	-18%	-17%

Sample Basics

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Sample Characteristics: HMO Enrollees in Eight MA Plans and FFS Enrollees Nationally and in Local Comparison Areas					
Data for 2005 and 2006 (pooled)	**Average Age (All Enrollees)**	**Enrollees with Diabetes (HCCs 15-19)**		**Enrollees with Heart Diseases (HCCs 79-83, 92, 104, 105)**	
		Number of Records	Total HCCs	Number of Records	Total HCCs
National					
FFS Including Medicaid	**74.2**	**639,124**	**2,344,115**	**859,916**	**3,342,530**
FFS Medicaid	**75.1**	**105,572**	**468,752**	**124,536**	**588,944**
FFS Without Medicaid	**74.1**	**533,552**	**1,875,363**	**735,380**	**2,753,586**
Company 1 Area					
MA Plan	**74.9**	**8,031**	**26,409**	**8,491**	**32,322**
Local FFS (w/o Medicaid)	**73.4**	**5,916**	**22,147**	**8,045**	**32,300**
Company 2 Area					
MA Plan	**75.4**	**17,904**	**59,404**	**23,783**	**83,927**
Local FFS (w/o Medicaid)	**74.1**	**5,071**	**16,911**	**7,420**	**26,721**
Company 3 Area					
MA Plan	**75.1**	**23,364**	**76,092**	**29,499**	**103,792**
Local FFS (w/o Medicaid)	**74.7**	**10,306**	**40,273**	**15,544**	**61,416**
Company 4 Area					
MA Plan	**75.4**	**90,195**	**336,345**	**126,527**	**495,751**
Local FFS (w/o Medicaid)	**75.6**	**6,099**	**24,400**	**9,291**	**37,401**

Sample Basics (Continued)

AHIP Center for Policy and Research

Sample Characteristics: HMO Enrollees in Eight MA Plans and FFS Enrollees Nationally and in Local Comparison Areas					
Data for 2005 and 2006 (pooled)	Average Age (All Enrollees)	Enrollees with Diabetes (HCCs 15-19)		Enrollees with Heart Diseases (HCCs 79-83, 92, 104, 105)	
		Number of Records	Total HCCs	Number of Records	Total HCCs
National					
FFS Including Medicaid	**74.2**	**639,124**	**2,344,115**	**859,916**	**3,342,530**
FFS Medicaid	**75.1**	**105,572**	**468,752**	**124,536**	**588,944**
FFS Without Medicaid	**74.1**	**533,552**	**1,875,363**	**735,380**	**2,753,586**
Company 5 Area					
MA Plan	**75.8**	**8,912**	**26,592**	**12,694**	**42,837**
Local FFS (w/o Medicaid)	**73.9**	**2,576**	**8,258**	**3,644**	**12,755**
Company 6 Area					
MA Plan	**75.9**	**13,196**	**46,428**	**17,016**	**65,499**
Local FFS (w/o Medicaid)	**74.7**	**6,523**	**25,623**	**9,701**	**38,865**
Company 7 Area					
MA Plan	**74.7**	**13,891**	**45,952**	**16,639**	**62,619**
Local FFS (w/o Medicaid)	**75.0**	**2,915**	**10,955**	**3,921**	**15,389**
Company 8 Area					
MA Plan	**74.4**	**24,951**	**77,249**	**30,649**	**104,265**
Local FFS (w/o Medicaid)	**75.2**	**1,353**	**4,812**	**1,738**	**6,818**

Severe Diagnosis Rates and Risk Scores

AHIP Center for Policy and Research

Average Rates of Illness Diagnoses (HCC Groups) and Overall Risk Scores – Medicare FFS and Seven Medicare Advantage HMO Plans						
Average HCC Markers per Beneficiary Record, 2005 and 2006 (pooled)	All HCCs	Cancers (HCCs 7-10)	Diabetes (HCCs 15-19)	Heart Disease (HCCs 79-83,92,104-105)	Kidney and Renal Disease (HCCs 130-132)	Average Overall Computed Risk Score *
National						
FFS Including Medicaid	1.74	0.16	0.34	0.58	0.06	1.13
FFS Medicaid	2.78	0.14	0.59	0.87	0.11	1.61
FFS Without Medicaid	1.62	0.16	0.31	0.54	0.05	1.08
Company 1 Area						
MA Plan	1.47	0.10	0.36	0.46	0.06	1.03
Local FFS (w/o Medicaid)	1.64	0.14	0.31	0.54	0.06	1.09
Company 2 Area						
MA Plan	1.36	0.13	0.28	0.40	0.05	0.99
Local FFS (w/o Medicaid)	1.41	0.16	0.25	0.46	0.05	1.00
Company 3 Area						
MA Plan	1.61	0.15	0.37	0.54	0.06	1.11
Local FFS (w/o Medicaid)	1.77	0.19	0.32	0.59	0.06	1.16

Severe Diagnosis Rates and Risk Scores (continued)

AHIP Center for Policy and Research

Average Rates of Illness Diagnoses (HCC Groups) and Overall Risk Scores – Medicare FFS and Seven Medicare Advantage HMO Plans						
Average HCC Markers per Beneficiary Record, 2005 and 2006 (pooled)	All HCCs	Cancers (HCCs 7-10)	Diabetes (HCCs 15-19)	Heart Disease (HCCs 79-83,92,104-105)	Kidney and Renal Disease (HCCs 130-132)	Average Overall Computed Risk Score *
Company 4 Area						
MA Plan	2.08	0.19	0.39	0.72	0.08	1.29
Local FFS (w/o Medicaid)	1.97	0.17	0.36	0.70	0.07	1.25
Company 5 Area						
MA Plan	1.35	0.14	0.23	0.44	0.06	1.00
Local FFS (w/o Medicaid)	1.30	0.14	0.23	0.41	0.05	0.96
Company 6 Area						
MA Plan	1.62	0.20	0.33	0.50	0.07	1.12
Local FFS (w/o Medicaid)	1.76	0.19	0.32	0.58	0.06	1.16
Company 7 Area						
MA Plan	1.74	0.19	0.36	0.55	0.07	1.13
Local FFS (w/o Medicaid)	1.79	0.17	0.36	0.59	0.06	1.16
Company 8 Area						
MA Plan	1.62	0.18	0.36	0.56	0.06	1.08
Local FFS (w/o Medicaid)	1.82	0.17	0.35	0.59	0.06	1.18

Percentage Difference in Co-morbidity Rates, Diabetes Patients, MA vs. FFS

AHIP Center for Policy and Research

Data from 2005 and 2006 (pooled)	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
Patients with Diabetes (HCC 15, 16, 17, 18 or 19), MA vs. FFS								
All HCCs	-12%	-1%	-17%	-7%	-7%	-10%	-12%	-13%
Heart Disease (HCCs 79-83, 92, 104-105)	-22%	-16%	-23%	-10%	-4%	-18%	-19%	-13%
Stroke (HCC 96)	-21%	-1%	-46%	-19%	3%	-17%	-26%	-13%
Pneumonia (HCCs 111,112)	-37%	-24%	-58%	-13%	-18%	-6%	-48%	-40%
Kidney and Renal Disease (HCCs 130-132)	-7%	-10%	-19%	6%	0%	3%	-10%	-5%

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Percentage Difference in Co-morbidity Rates, Heart Disease Patients, MA vs. FFS

AHIP Center for Policy and Research

Data from 2005 and 2006 (pooled)	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
Patients with Heart Disease (HCCs 79, 80, 81, 82, 83, 92, 104, or 105), MA vs. FFS								
All HCCs	-5%	-2%	-11%	-3%	-4%	-4%	-4%	-13%
Diabetes (HCCs 15-19)	12%	9%	-1%	-3%	-9%	-4%	-9%	-8%
Stroke (HCC 96)	-9%	7%	-40%	-17%	-6%	-8%	-9%	-5%
Pneumonia (HCCs 111,112)	-38%	-15%	-47%	1%	-3%	8%	-21%	-34%
Kidney and Renal Disease (HCCs 130-132)	12%	-2%	-6%	11%	9%	11%	3%	-7%

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